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54 **Pressure measuring system with ultrasonic wave.**

57 The present invention relates to a system for measuring from the outside a pressure within the heart in a living body or a pressure in a body of the industrial field which does not allow measurement by directly inserting a pressure measuring sensor.

This system provides a method of measuring a pressure of the object by generating fine bubbles through cavitation by applying a low frequency ultrasound wave and by detecting such generation with high of low harmonics frequency due to the bubbles or a higher frequency ultrasonic wave applied from outside.

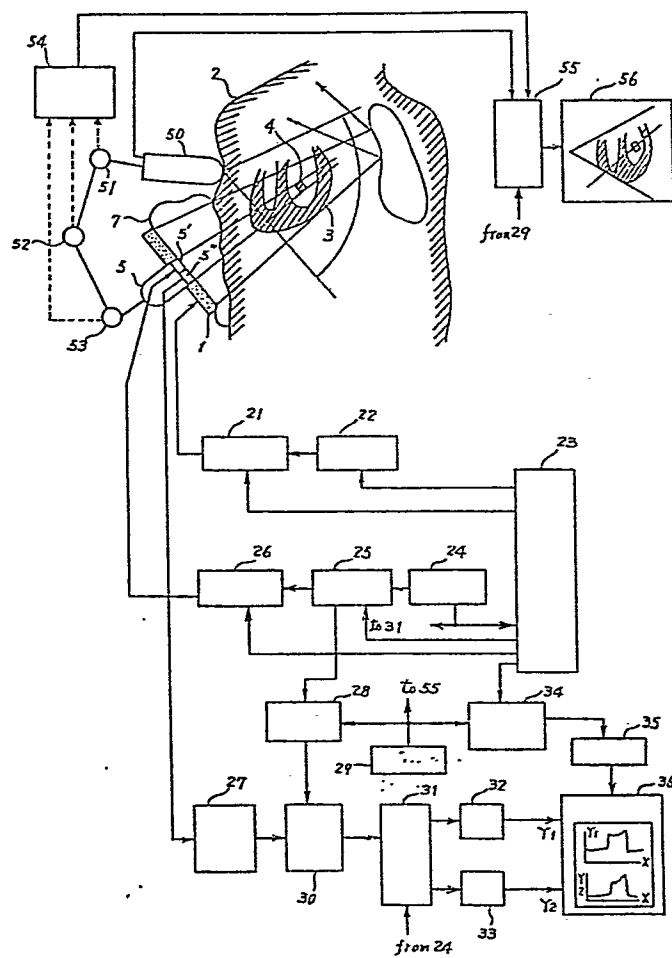


FIG. 7



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EUROPEAN SEARCH REPORT

0072330

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DOCUMENTS CONSIDERED TO BE RELEVANT			EP 82401503.6
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.) 3
X	US - A - 4 130 010 (WONN) * Abstract; fig. 1,4; column 1, lines 59-68; column 2, lines 23-44; column 3, lines 6-29 *	1-5,8	G 01 L 11/00 A 61 B 8/04 A 61 B 5/02
X	DE - A1 - 2 946 662 (SIEMENS) * Page 1, claim 1; page 4, lines 7-5; fig. *	1-4,6-9	
Y	DE - C - 865 832 (SIEMENS-SCHUCKERT) * Page 1, lines 1-4; page 4, claim 1 *	1,8 3,6	
Y	AT - B - 350 170 (ECKEL) * Page 2, lines 1-8; page 5, claim 1 *	1,8 3,6	TECHNICAL FIELDS SEARCHED (Int. Cl.) 3
A	EP - A1 - 0 027 215 (FRAUNHOFER-GESELLSCHAFT) * Abstract; page 8, line 1 - page 9, line 32; page 26, claim 1; page 27, claim 2 *	1,3,6,8	G 01 L A 61 B G 01 N
P,A	US - A - 4 316 391 (TICKNER) * Abstract; fig. 1 *	1,3,6,8	
A	US - A - 4 265 251 (TICKNER) * Abstract; fig. 1 *	1,3,6,8	
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 29-04-1986	Examiner NEGWER
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	US - A - 3 640 271 (HORTON) * Abstract; fig. 1 *	1,6-8	
A	US - A - 4 112 735 (MC KNIGHT) * Abstract; fig. 1 *	1-3,8	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³ 3)
The present search report has been drawn up for all claims			
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